

COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010584
DATE CERTIFICATION METHOD PERFORMED: April 16, 2015
DATE RECERTIFICATION DUE: October 13, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

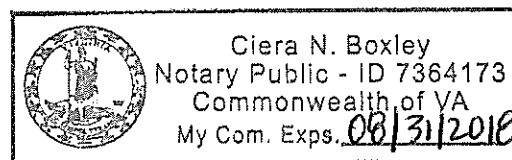
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 16th day of April, 2015 by Michelle M. Billeter

Ciera N. Boxley jen
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
4/16/2014 To 4/16/2015

MMB

Instrument Serial Number:	010584	As of 16-Apr-15
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Maintenance Date	Certification Date	Technician Initials	Remarks
16-Apr-15	16-Apr-15	MMB (26417)	CERTIFIED.
24-Nov-14	16-Oct-14	DBH (21250)	REPLACED UPS BACK-UP BATTERY.
16-Oct-14	16-Oct-14	HMS (18910)	REPLACED AND TESTED FUEL CELL MODULE, FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.

mmb

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010584 Worksheet Start Date 4/16/2015
Location DFS Central
Address 737 North 5th Street, Richmond VA 23219
DFS Technician Michelle Billeter License No. 26417
☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 763 Reference Barometer (mm HG) 767
Reference Barometer(RB)Serial # 009110 RB Calibration Due 5/28/2015

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.305
0.300	0.301	0.291	0.310	Sample 2	0.305
Precision		sample min	sample max	Sample 3	0.306
0.001		0.305	0.306		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.101
Precision		sample min	sample max	Sample 3	0.101
0.001		0.100	0.101		

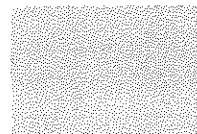
Dry gas standard Lot No. (with tank no.) AG425201-39

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010584

Certification Date

4/16/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.251	0.243	0.258	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.251
0.001		0.250	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.151	0.146	0.155	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.080
0.001		0.080	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.020
0.001		0.019	0.020		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Michelle Bellotti

Date

4/16/15

Issuing Analyst

Michelle Bellotti

Date

*4/16/15**JPD*

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010584 Test Number: 1838
Test Date: 04/16/2015 Test Time: 13:52 EDT

Technician Initials: MME

Dry Gas Target: 0.251

Lot Number: 1611425014-04 Exp Date: 07/05/2016

Tank Pressure: 56 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:53
BLK	0.000	13:54
CHK	0.251	13:54
BLK	0.000	13:56
CHK	0.250	13:56
BLK	0.000	13:58
CHK	0.251	13:58
BLK	0.000	14:00

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010584 Test Number: 1039
Test Date: 04/16/2015 Test Time: 14:01 EDT

Technician Initials: MMB

Dry Gas Target: 0.151

Lot Number: 1611415013-03 Exp Date: 07/05/2016

Tank Pressure: 698 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:02
BLK	0.000	14:02
CHK	0.151	14:03
BLK	0.000	14:04
CHK	0.151	14:05
BLK	0.000	14:06
CHK	0.151	14:07
BLK	0.000	14:08

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010584 Test Number: 1340
Test Date: 04/16/2015 Test Time: 14:10 EDT

Technician Initials: MME

Dry Gas Target: 0.080

Lot Number: 1611408012-02 Exp Date: 07/05/2016

Tank Pressure: 575 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:18
BLK	0.000	14:19
CHK	0.080	14:19
BLK	0.000	14:21
CHK	0.081	14:21
BLK	0.000	14:23
CHK	0.080	14:23
BLK	0.000	14:25

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

mmb

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010584 Test Number: 1841
Test Date: 04/16/2015 Test Time: 14:34 EDT

Technician Initials: MMB

Dry Gas Target: 0.020

Lot Number: 1611402011-01 Exp Date: 07/05/2016

Tank Pressure: 718 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:35
BLK	0.000	14:35
CHK	0.019	14:36
BLK	0.000	14:37
CHK	0.019	14:38
BLK	0.000	14:39
CHK	0.020	14:40
BLK	0.000	14:41

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010584 Test Number: 1842

Test Date: 04/16/2015 Test Time: 14:49 EDT

Dry Gas Target: 0.301

Lot Number: AG428003-12 Exp Date: 10/07/2016

Tank Pressure: 129 psi Barometric Pressure: 753 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:49
CHK	0.305	14:50
BLK	0.000	14:52
CHK	0.305	14:53
BLK	0.000	14:54
CHK	0.306	14:55

Test Status: *Success*

Calibration CRC: 698C0AB8

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010584 Test Number: 1843

Test Date: 04/16/2015 Test Time: 15:01 EDT

Dry Gas Target: 0.100

Lot Number: AG425201-39 Exp Date: 09/09/2016

Tank Pressure: 100 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:02
CHK	0.100	15:03
BLK	0.000	15:04
CHK	0.101	15:05
BLK	0.000	15:06
CHK	0.101	15:07

Test Status: Success

Calibration CRC: 698C0AB8

mmb

INSTRUMENT, TEST,

DFS

BILLETER, MICHELLE, M

DFS Central Lab

26417

10/01/2016

04/16/2015

010534

04/16/2015

15:17 EDT

0.00

mmB



IntoxNet MIS Report

Report Generated 16 Apr 2015 at 15:29

Test Results

Instrument Serial Number 010584

Test # 001844 Subject Test

Test Location 1 Department of
Test Date 16 Apr 2015

Test Location 2 Forensic Science
Test Time 15:10
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial IV

Card Serial Number 126417

License Number 26417

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 16 Apr 2015 End Time 15:18

Result Time 15:17

Result Date 16 Apr 2015

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:10

Data Type BLK

Sample Value 0.000

Sample Time 15:11

Data Type CHK

Sample Value 0.100

Sample Time 15:12

Data Type BLK

Sample Value 0.000

Sample Time 15:13

Data Type SUBJ

Sample Value 0.000

Sample Time 15:14

Data Type BLK

Sample Value 0.000

Sample Time 15:15

Data Type SUBJ

Sample Value 0.000

Sample Time 15:17

Data Type BLK

Sample Value 0.000

Sample Time 15:18

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG425201-39

Standard Expiration Date 09/09/2016

Tank Pressure 95

Barometric Pressure 763 mmHg

Blow Sample Number 1 Blow Duration 4.21 sec

Blow Volume 1863 cc End-of-Blow Time 15:14

Blow Sample Number 2 Blow Duration 3.98 sec

Blow Volume 1822 cc End-of-Blow Time 15:17

Tamper Evident Stamp fb84f457

Test Status Code 0

Test Status Success